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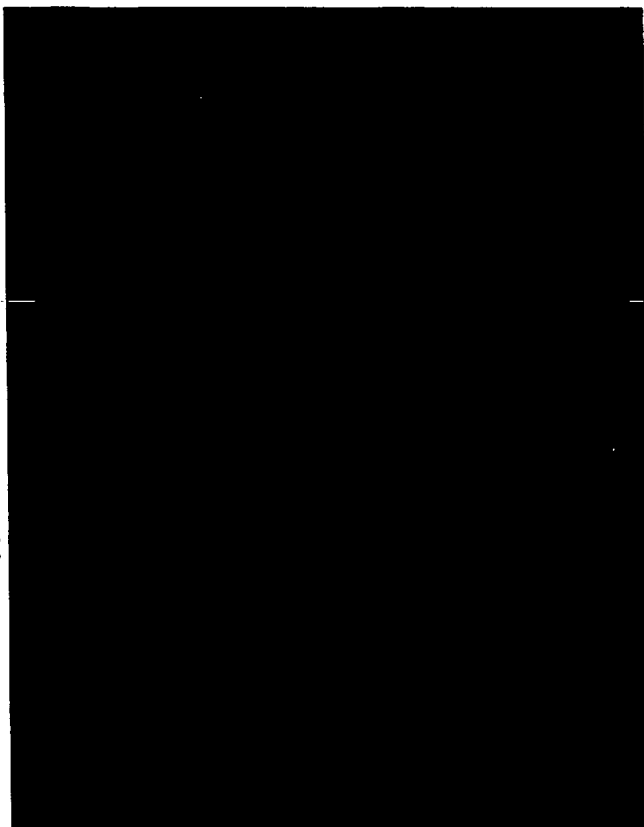
Immunostaining of alpha 1C subunit in the wild
type HEK 293 cells and cells stably transfected
with the L-type Δ 1C channel (C1-6-37-3)



Wild type HEK 293 cells

FIG. 1B

Immunostaining of alpha 1C subunit in the wild
type HEK 293 cells and cells stably transfected
with the L-type Δ 1C channel (C1-6-37-3)



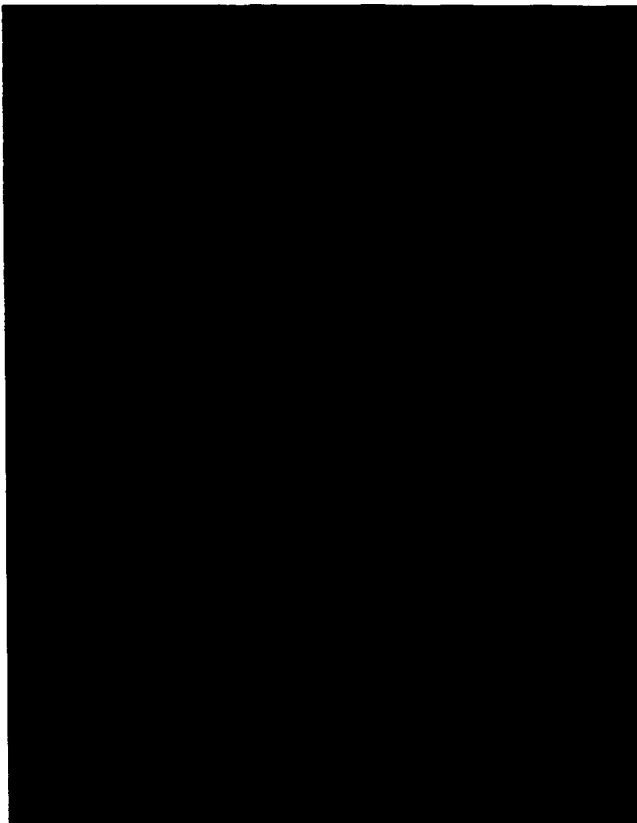
C1-6-37-3 cells

FIG. 1A

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Immunostaining of Kir2.3 subunit in the wild type
HEK 293 cells and the cells stably transfected with
the L-type $\Delta 1C$ channel (C1-6-37-3)



Wild type HEK 293

FIG. 2B

Immunostaining of Kir2.3 subunit in the wild type
HEK 293 cells and the cells stably transfected with
the L-type $\Delta 1C$ channel (C1-6-37-3)



C1-6-37-3

FIG. 2A

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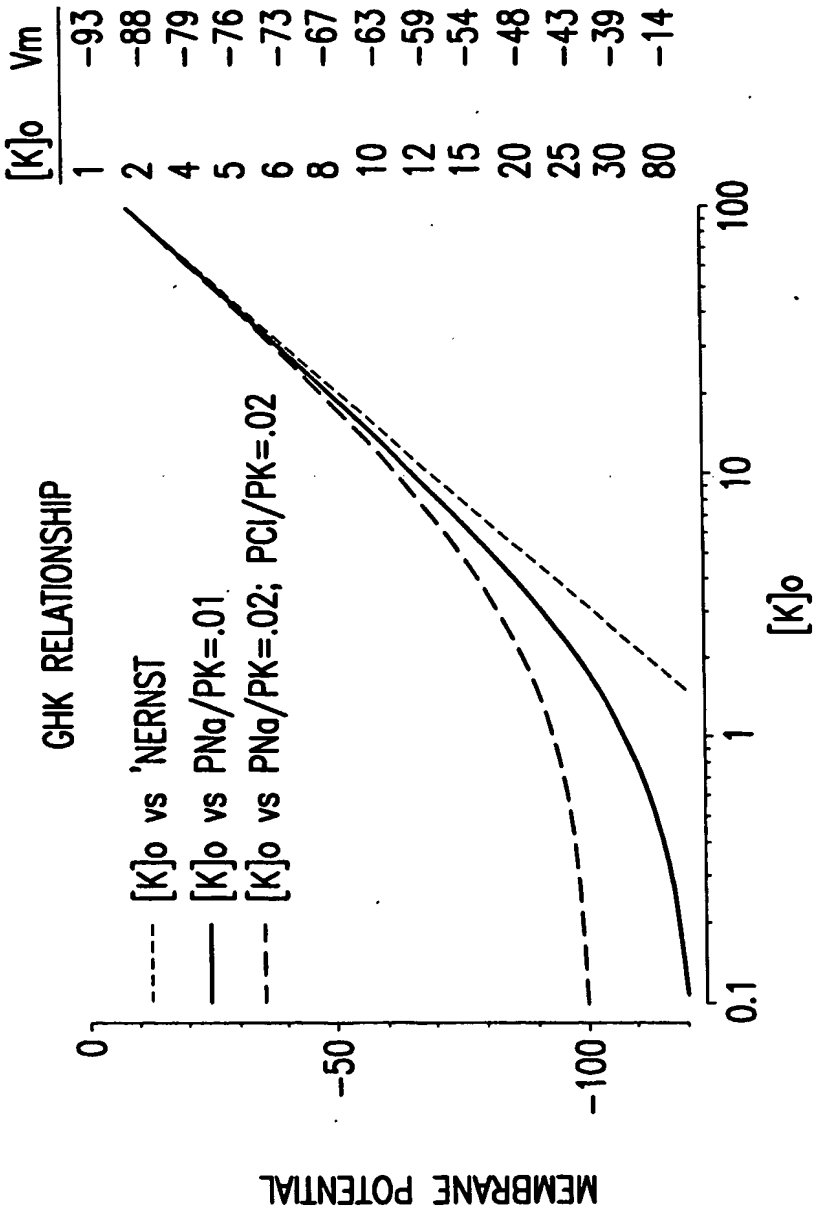


FIG.3

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DOSE-RESPONSE RELATIONSHIP FOR K^+ -STIMULATED CALCIUM INFUX IN
WILD TYPE HEK 293 CELLS AND CELLS STABLY TRANSFECTED WITH THE L-TYPE $\Delta 1C$
CHANNEL (C1-6-37-3)

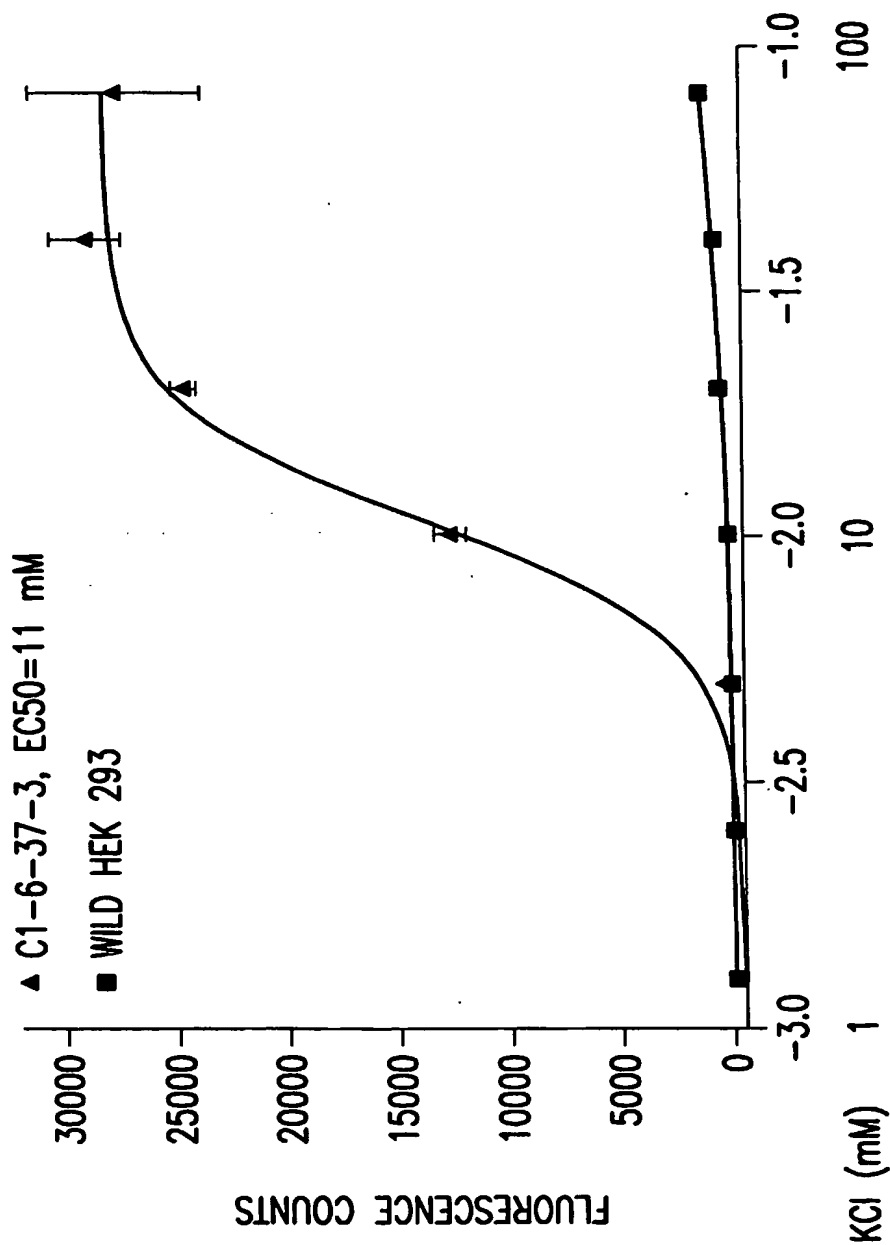


FIG.4

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COMPARISON OF NIMODIPINE AND MIBEFRADIL INHIBITION
CURVES IN K^+ -STIMULATED CALCIUM INFLUX IN C1-6-37-3 CELLS
UNDER RESTING CONDITION (5.8 mM K^+ K^+ = -65 mV)

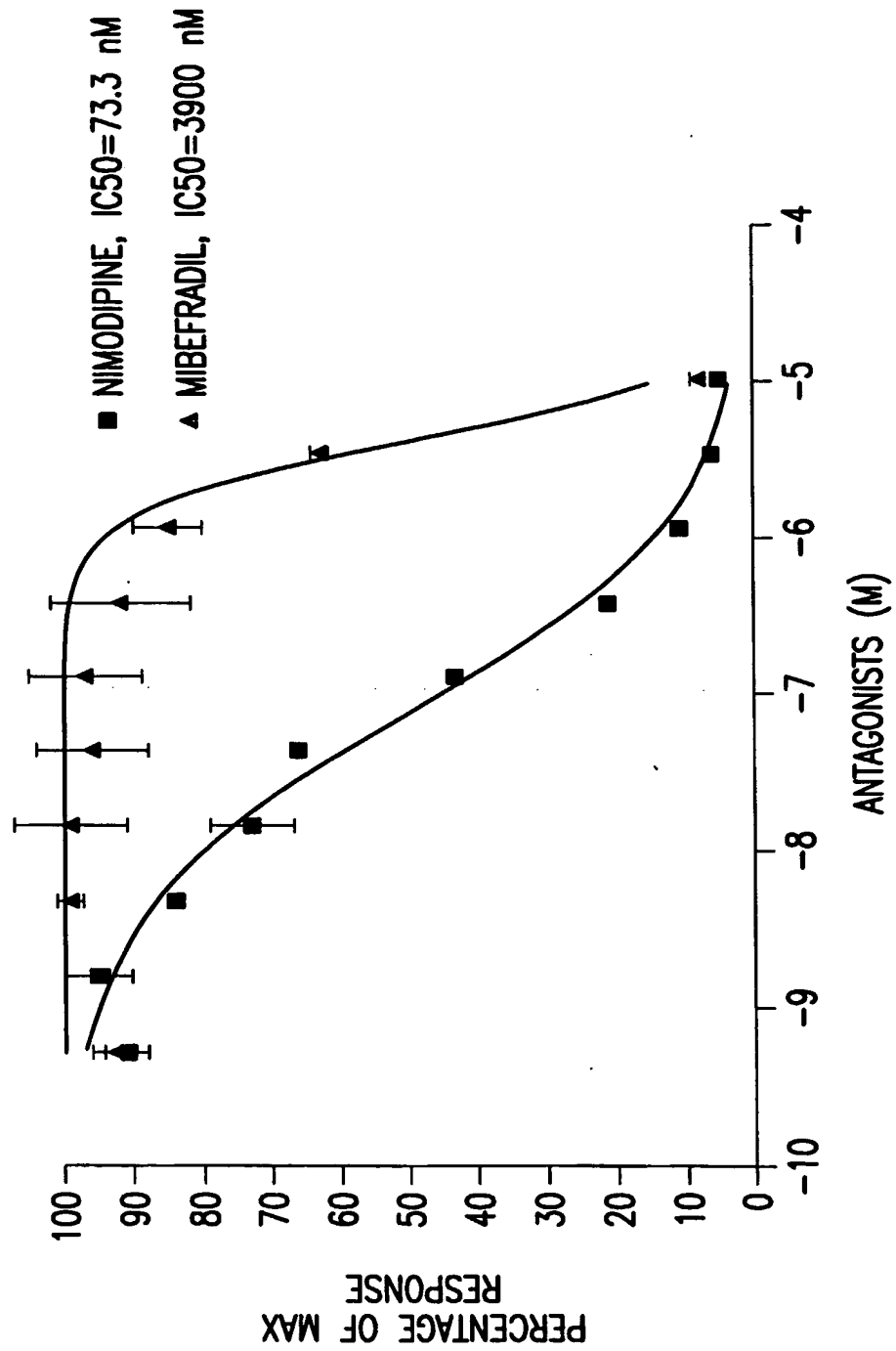


FIG.5

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NIMODIPINE INHIBITION CURVE STIMULATED BY K^+ (FINAL
85.8 mM) EITHER IN 30 mM K^+ (DEPOLARIZED CONDITION, -28 mV)
OR 5.8 mM K^+ (RESTING CONDITION, -65 mV)

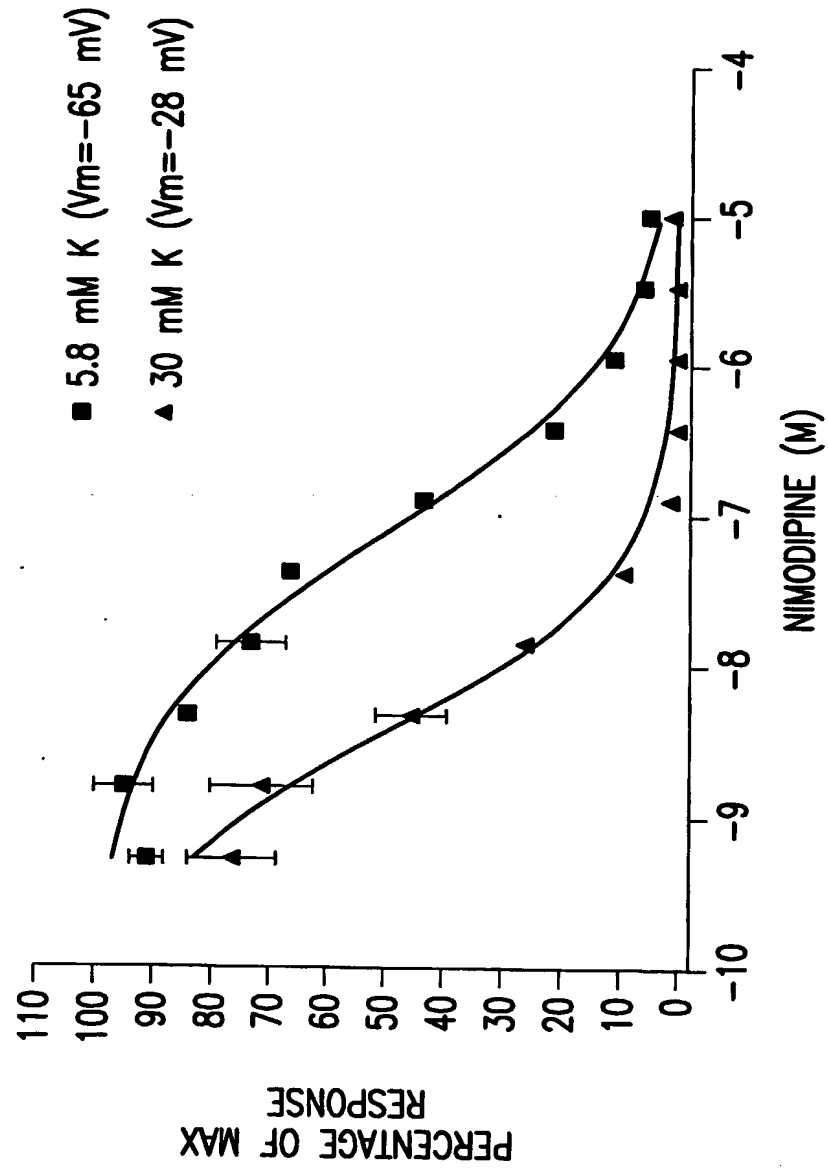


FIG.6

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IC₅₀ (nM) VALUES OF CALCIUM CHANNEL BLOCKERS FOR
INHIBITION OF K⁺-INDUCED CALCIUM INFLUX EITHER IN 30 mM K⁺
(DEPOLARIZED CONDITION) OR 5.8 mM K⁺ (RESTING CONDITION)

COMPOUNDS	5.8 mM [K] _o	n	30 mM [K] _o	n	F
NIMODIPINE	59 ρ 27	4	3 ρ 3	5	20
VERAPAMIL	16220 ρ 1395	2	695 ρ 41	4	23
DILTIAZEM	16020 ρ 523	2	1888 ρ 155	3	8
AMLODIPINE	2980 ρ 747	7	390 ρ 164	2	8
NIFEDIPINE	43 ρ 12	4	7 ρ 1	3	6
NITRENDIPINE	51 ρ 18	4	6 ρ 3	2	9
NICARDIPINE	160 ρ 30	2	13 ρ 1	2	12
LERCANIDIPINE	509 ρ 48	2	14 ρ 5	2	36
EFONIDIPINE	1821 ρ 693	2	68 ρ 25	2	28
LACIDIPINE	116 ρ 19	2	10 ρ 8	2	12
MIBEFRADIL	3458 ρ 867	4	791 ρ 43	5	4

FIG.7